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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,094	01/31/2002	Steven Teig	SPLX.P0080	6006
23349	7590 11/19/2004		EXAMINER	
STATTLER JOHANSEN & ADELI P O BOX 51860			GARBOWSKI, LEIGH M	
PALO ALTO, CA 94303			ART UNIT	PAPER NUMBER
,			2825	

DATE MAILED: 11/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>UM</i>
	Application No.	Applicant(s)	
	10/066,094	TEIG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Leigh Marie Garbowski	2825	
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet with	the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a reption. s, a reply within the statutory minimum of thirty (y period will apply and will expire SIX (6) MONTHy statute, cause the application to become ABAI	ly be timely filed (30) days will be considered timely. HS from the mailing date of this common NDONED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed or	1		
2a) This action is FINAL . 2b)	☑ This action is non-final.		
3) Since this application is in condition for a closed in accordance with the practice u			nerits is
Disposition of Claims			
4) Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) is/are w 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	ithdrawn from consideration.		
Application Papers			•
9) ☐ The specification is objected to by the Ex 10) ☑ The drawing(s) filed on 31 January 2002 Applicant may not request that any objection Replacement drawing sheet(s) including the 11) ☐ The oath or declaration is objected to by	is/are: a) accepted or b) obj to the drawing(s) be held in abeyance correction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR	1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority doct 2. Certified copies of the priority doct 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in App e priority documents have been re Bureau (PCT Rule 17.2(a)).	olication No eceived in this National St	age
Attachment(s) 1) 図 Notice of References Cited (PTO-892) (えんぱん)	∆ □ !=!==:= 2	mmon/ (DTO 442)	
1) ☑ Notice of References Cited (PTO-892) (ペイルのの) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-9 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO) Paper No(s)/Mail Date (7 sheets). 多之ししようしい	48) Paper No(s)/((SB/08) 5) Notice of Info	mmary (PTO-413) Mail Date ormal Patent Application (PTO-15	52)

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-4, 6, 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Lee et al. [U.S. Patent #4,812,419].

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Leuschner [U.S. Patent #4,724,471].

Claims 3-4 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kim [U.S. Patent #4,342,045].

Claims 3-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hause et al. [U.S. Patent #6,137,182].

Claims 6-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Eden et al. [U.S. Patent #5,620,916].

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Irinoda [U.S. Patent #5,726,499].

Claims 1-2 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Egitto et al. [U.S. Patent #6,522,014 B1].

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Claims 1-5 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Goerlach et al. [U.S. Patent #6,787,905 B1].

Claims 6-9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Goda et al. [U.S. Patent Application Publication #2001/0002713 A1].

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Katz [U.S. Patent #6,310,398 B1].

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Huang et al. [U.S. Patent #6,441,494 B2].

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Nagasaka et al. [U.S. Patent #6,300,683 B1].

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Broadbent [U.S. Patent #5,063,175] disclose circular vias. Smith et al. [U.S. Patent #5,055,966] disclose multilayer circuit structures with circular vias. Pohland et al. [U.S. Patent #6,596,466 B1] disclose that effects can give rise to circular shape. Jang [U.S. Patent #6,229,214 B1] disclose shapes for contact holes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Marie Garbowski whose telephone number is 571-272-1893. The examiner can normally be reached on days.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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EIGH M. GARBOWSKI PRIMARY EXAMINER